Monday, May 1, 2006			
07:45 – 08:45 am	Registration/Continental Breakfast		
08:45 – 09:00 am	Welcome/Overview Week	Michael Zernic, NASA Glenn Research Center	
Plenary Sess	Plenary Session – The Next Generation Air Transportation System: Building Upon the Foundation Session Chair: Karl Grundmann, JPDO Communications Director		
09:00 – 10:00 am	JPDO Progress and Plans	Robert Pearce, JPDO Director (Acting)	
10:00 – 10:30 am	BREAK		
10:30 – 12:00 pm	Block to Block Operations Vision – The First Steps Operational Improvement Roadmap ADS-B Role in the Vision	John Scardina, Director, JPDO Portfolio Management Division Rick Castaldo, Federal Aviation	
	FAA SWIM Acquisition Planning	Administration Mike Hawthorne, Federal Aviation Administration	
12:00 – 01:00 pm	LUNCH		
Session A1 – Communication Technology Session Chair: Art Feinberg, Intelligent Automation, Inc.			
01:00 – 01:30 pm	Multi-Aircraft Airborne Networking Demonstration	Ralph Yost, Federal Aviation Administration, William J Hughes Technical Center	
01:30 – 02:00 pm	Qualification Challenges for Software Defined Radios	Michael Kocin, ViaSat, Inc.	
02:00 – 02:30 pm	Commercial Link 16 for ATC Application	Michael Kocin, ViaSat, Inc.	
02:30 – 03:00 pm	Technical and Operational Migration Concepts of a Broadband VHF Communication System (B-VHF)	Bernhard Haindl, Miodrag Sajatovic, Johannes Prinz, Frequentis; Michael Schnell, DLR and Carl-Herbert Rokitansky, UNISBG	
03:00 – 03:30 pm			
03:30 – 04:00 pm	Compatibility Analysis of Airport Wireless Local Area Networks and Satellite Feeder Links in the 5091-5150 MHz Band	Isabela Gheorghisor, Yan-Shek Hoh, and Frank Box, The MITRE Corporation	
04:00 – 04:30 pm	Laser Communications to Beam Optical Band to Distant Points	Belal Hamzeh and Mohsen Kavehrad, The Pennsylvania State University	
04:30 – 05:00 pm	Wireless Spacecraft Bus - A Radio Frequency Based Data Communication Architecture	Min Song, Sachin Shetty, Robert Ash and Kenneth Bone, Old Dominion University	
05:00 – 05:30 pm	Investigation of Operator Benefits from Reducing Horizontal Separations in North Atlantic Organized Track System	Almira Williams, CSSI, Inc.	
06:30 – 08:30 pm	DINNER & A MOVIE (Constellation Ballroom A) "Weather Forecast: Safer Skies Ahead (WINCOMM)	n	













	Monday, May 1, 2006	
Sassio	Session A2 – Navigation and Surve on Chair: Chris Daskalakis, DOT Volpe National Tra	
01:00 – 01:30 pm	Development of a Portable ADS-B Avionics Evaluation Tool	Randy Sleight, The John Hopkins University Applied Physics Laboratory
01:30 – 02:00 pm	Analysis of Horizontal Position and Separation Accuracy of Automatic Dependent Surveillance - Broadcast and Radar Systems in Flight Tests with the Micro En Route Automated Radar Tracking System	Michael Castle, The John Hopkins University Applied Physics Laboratory
02:00 – 02:30 pm	Enhanced ADS-B	Edward Valovage and Kenneth Samuelson, Sensis Corporation
02:30 – 03:00 pm	System Wide ADS-B Back Up and Validation	Alex Smith, Rick Cassell, T. Breen, R. Hulstrom and Carl Evers, Rannoch Corporation
03:00 – 03:30 pm	BREAK	
03:30 – 04:00 pm	Sea Trial / LTE For ADS – B STIMS 21-22	Dave McNamara, DCS Corporation
04:00 – 04:30 pm	GPS/Galileo Performance Assessment for Aircraft Navigation and Approach	Helmut Blomenhofer, Thales ATM GmbH
04:30 – 05:00 pm	(Airspace) Surveillance Transformation, Stovepipe to Service Oriented Architecture (SOA)	Christopher Smith and Charles Brown, Sensis Corporation
	Risk Sharing and Risk Mitigation in Global Navigation Satellite System Market (paper only)	Mariagrazia Spada, University of Roma "La Sapienza"
	Positioning and Navigation System Using GPS (paper only)	Jagannathan Parthasarathy, Sun Microsystems Pvt. Ltd
06:30 – 08:30 pm	DINNER & A MOVIE (Constellation Ballroom A) "Weather Forecast: Safer Skies Ahead (WINCOMM)"
	Session A3 – Netcentric Operations a Session Chair: Rafael Apaza, Federal Aviation	
01:00 – 01:30 pm	The Federal Aviation Administration (FAA) System Wide Information Management (SWIM) Program	John Loynes, Federal Aviation Administration
01:30 – 02:00 pm	Transforming the NAS Through System Wide Information Management and Network Enabled Operations	Chip Meserole, Boeing Company
02:00 – 02:30 pm	Data Distribution and Access Techniques for FAA System Wide Information Management	Paul Comitz, Boeing Company
02:30 – 03:00 pm	Enhanced Common Situational Awareness via SWIM-Based Applications	Jon Dehn and Sid Rudolph, Lockheed Martin Transportation & Security Solutions
03:00 – 03:30 pm	BREAK	
03:30 – 04:00 pm	Design, Architecture, the National Airspace System, System Wide Information Management, Network-Centric Operations, and Service-Oriented Architecture	Michael McGrady, Topia Technology
04:00 – 04:30 pm	Aircraft Mobility Within an Internet Protocol-Based National Airspace System	Brian Haberman, The John Hopkins University Applied Physics Laboratory
04:30 – 05:00 pm	Service Oriented Communication Architectures in Safety Critical Environments	Johannes Prinz , Wolfgang Kampichler, and Bernhard Haindl, Frequentis GmbH
	SWIM-SUIT: Proposal for a RP6 STREP on SWIM (moved to Session C1)	Massimiliano DeAngelis and S. Porfiri, Selex-Sistemi Integrati
06:30 – 08:30 pm	DINNER & A MOVIE (Constellation Ballroom A) "Weather Forecast: Safer Skies Ahead (WINCOMM)"













	Tuesday, May 2, 2006	
07:30 – 08:30 am	Registration/Continental Breakfast	
	Plenary Session – Future Communicati	ions Study
	n Chairs: James Eck, Federal Aviation Administrati	
08:30 – 08:50 am	Future Communications Study Overview	Brent Phillips, Federal Aviation Administration and Jacky Pouzet, Eurocontrol
08:50 – 09:10 am	Communication Operational Concept and Requirements	Gregg Anderson, Federal Aviation Administration
09:10 – 09:30 am	Technology Evaluation Executive Summary	Glen Dyer, ITT Industries and Phil Platt, QinetiQ
09:30 – 09:50 am	Future Communications Study: Roadmap Status	Dean Lamiano, The MITRE Corporation
09:50 – 10:30 am	Joint U.S. and Eurocontrol Question and Answer Panel	All
10:30 – 11:00 am	BREAK	
Session Ch	Session B1 – Future Communication airs: James Budinger, NASA Glenn Research Cent	
11:00 – 11:30 am	Overview of Current Eurocontrol Communications Activities	Jacky Pouzet, Eurocontrol
11:30 – 12:00 pm	Spectrum Issues and WRC 07 Preparation	Michael Biggs, Federal Aviation Administration
12:00 – 01:00 pm	LUNCH	
01:00 – 01:30 pm	FCS Evaluation Criteria for Technology Assessment	Tricia Gilbert, ITT Industries
01:30 – 02:00 pm	Evaluation Process and Interim Results	Glen Dyer, ITT Industries
02:00 – 02:30 pm	Development of Technology Shortlist for Future Investigations	Jacky Pouzet, Eurocontrol
02:30 – 03:00 pm	Flexible Airborne Architecture	Phil Platt, QinetiQ
03:00 – 03:30 pm	BREAK	
03:30 – 04:00 pm	A Method for Estimating Future Air/Ground Data Loading	Brian Hung, The MITRE Corporation
04:00 – 04:30 pm	L-Band Channel Modeling	Jason Berger, ITT Industries
04:30 – 05:00 pm	L-Band Digital Link for Air Traffic Services Data Communications	Warren Wilson, The MITRE Corporation
05:30 – 06:30 pm	BASEBALL SOCIAL IN HOTEL ATRIUM	
07:05 pm	Baltimore Orioles vs. Toronto Blue Jays	













Tuesday, May 2, 2006		
Session B2 – Airspace Safety and Security Session Chair: Thomas Tanger, Ohio Aerospace Institute		
11:00 – 11:30 am	Enhancing Airspace Security in the Washington ADIZ	Scott Landriau, Patrick Markiewicz and John Zuna, Lockheed Martin Transportation & Security Solutions
11:30 – 12:00 pm	Cyber Security Research Plans for a Secure Aircraft Data Network (SADN)	Kevin Harnett and Vince Rakauskas, Volpe National Transportation Systems Center
12:00 – 01:00 pm	LUNCH	
01:00 – 01:30 pm	Joint Network-Enabled Operations (NEO) Security Demonstration	Michael Lewis and Gene Hayman, Boeing Phantom Works
01:30 – 02:00 pm	Maximizing Safety, Security and Efficiency within Multi-Layer Aviation Infrastructure Environments	Diptesh Patel, CMACS Global (cancelled)
02:00 – 02:30 pm	Project SafeGuard	David Frostbutter, The John Hopkins University Applied Physics Laboratory and Brian Throop, Federal Aviation Administration (cancelled)
02:30 – 03:00 pm	Air-to-Air Avionics Integration	Michael Harrison, Aviation Management Associates, Inc.
03:00 – 03:30 pm	BREAK	
03:30 – 04:00 pm	Impact of Weather to Cockpit Integration	James Tauss, Aviation Management Associates, Inc.
04:00 – 04:30 pm	An Operational Evaluation of the Final Approach Runway Occupancy Signal	Kirk Swanson, Architecture Technology Corporation and Jaime Figueroa, Federal Aviation Administration
04:30 – 05:00 pm	Simple Methodology for the Stochastic Independent Event Calculation of Air Traffic Conflicts	Seamus McGovern and Stephen Creaghan, Volpe National Transportation Systems Center
05:00 – 05:30 pm	Tandem Optical Sensors to Assist in Runway Incursion Prevention	Seamus McGovern and Stephen Creaghan, Volpe National Transportation Systems Center
05:30 – 06:30 pm	BASEBALL SOCIAL IN HOTEL ATRIUM	
07:05 pm	Baltimore Orioles vs. Toronto Blue Jays	













	Tuesday, May 2, 2006	
Session B3 – Surface Systems and Architectures		
11:00 – 11:30 am	Session Chair: Len Carlson, Technology Ser Airport Surface Network Architecture Definition	Thanh Nguyen, Analex Corporation; Wesley Eddy, Verizon Federal Network Systems; Steven Bretmersky, Cleveland State University; Fran Lawas-Greodek and Brenda Ellis, NASA Glenn Research Center
11:30 – 12:00 pm	An Experimental Airport Surface Wireless Network	Steven DeHart and Phillip Neumiller, Sensis Corporation
12:00 – 01:00 pm	LUNCH	
01:00 – 01:30 pm	Augmented and Virtual Reality Research for Tower Control at Airports	Marc Bourgois, EUROCONTROL Experimental Center
01:30 – 02:00 pm	The Remote Airport Traffic Services Concept: Opportunities and Requirements	Chris Brinton and Stephen Atkins, Mosaic ATM
02:00 – 02:30 pm	Use of Virtual Mission Operations Center Technology to Achieve JPDO's Virtual Tower Vision	William Ivancic, NASA Glenn Research Center
02:30 – 03:00 pm	The Future of Terminal Airspace: An Airportal for 2025	Mary Ellen Miller, Raytheon Company
03:00 – 03:30 pm	BREAK	
03:30 – 04:00 pm	Automated Arrival Traffic Flow Management Using 4D Trajectories	Dave Schleicher and Doug Sweet, Sensis Corporation
04:00 – 04:30 pm	Research on Advanced Displays for Self- Separation and Sequencing at Non-Towered Airports	Keith Alter, Nav3D Corporation; Wallace Kelly, Blue Rock Research; Paul Snow, Mind's Eye Visualization and Louis Williams, RTI International
04:30 – 05:00 pm	Wireless Channel Characterization: Modeling the 5 GHz Microwave Landing System Extension Band for Future Airport Surface Communications	David Matolak, I. Sen, W. Xiong, Ohio University; Rafael Apaza, Federal Aviation Administration and Lawrence Foore, NASA Glenn Research Center
05:00 – 05:30 pm	An IEEE 802.11/802.16 Hybrid Terminal Area Networking for the Next-Generation National Airspace System	Jack Burbank and William Kasch, The John Hopkins University Applied Physics Laboratory
05:30 – 06:30 pm	BASEBALL SOCIAL IN HOTEL ATRIUM	
07:05 pm	Baltimore Orioles vs. Toronto Blue Jays	













	Wednesday, May 3, 200	6	
07:00 – 08:00 am	Registration/Continental Breakfast		
F	 Plenary Session – Performance-Based System Implementation Challenges Session Chair: David Hamrick, The MITRE Corporation		
08:00 – 08:30 am	RNP and RNAV Implementation	Jeff Williams, Federal Aviation Administration	
08:30 – 09:00 am	ADS-B Roadmap	Rick Castaldo, Federal Aviation Administration	
09:00 – 09:30 am	Quantitative Benefits of RNP/RNAV	Ralf Mayer, The MITRE Corporation	
09:30 – 10:00 am	Question and Answer Panel	All	
10:00 – 10:30 am	BREAK	<u> </u>	
	Session C1 – Aeronautical Information Services (A Session Chair: James Griner, NASA Glenn Ro		
10:30 – 11:00 am	Flight Test Results of VDL-3, UAT, and 1090ES Datalinks for Weather Information Communication	James Griner, NASA Glenn Research Center	
11:00 – 11:30 am	Broadband Aircraft Communication Using a Mesh Network	William McNary, AeroSat	
11:30 – 12:00 pm	SWIM-SUIT: Proposal for a RP6 STREP on SWIM (moved from Session A3)	Massimiliano DeAngelis and S. Porfiri, Selex-Sistemi Integrati	
12:00 – 01:00 pm	LUNCH		
	Session C2 – Future Global Police Session Chair: Carey Fagan, Federal Aviation		
01:00 – 01:30 pm	Shift the Current Air Traffic Management Paradigm:	Laurent Guichard and Sandrine Guibert,	
	From Means to Objectives Management	EUROCONTROL Experimental Center; Didier Dohy and Jean-Yves Grau, NeoSYS	
01:30 – 02:00 pm	Architecture & Requirements Development for the Next Generation Air Transportation System	Paul Mettus, Robert Avjian and Steven Rosen, Lockheed Martin Transportation & Security Solutions	
02:00 – 02:30 pm	CNS/ATM Planning: Modeling USAF and Civilian Air Traffic Interactions in European Airspace	Edward Wigfield, Kelly Connolly, Alexander Alshtein, James DeArmon, Richard Flourney, William Hershey, John James, Paula Mahoney, Jennifer Mathieu, John Maurer and Paul Ostwald, The MITRE Corporation	
	A Free Transatlantic Aviation Market: Legal Regulatory Framework Concerning European Airspace System Needs to be Defined in Advance (paper only)	Mariagrazia Spada, University of Roma "La Sapienza"	
02:30 – 03:30 pm	BREAK		
	Workshop Session 1		
	Session Chairs: Michael Gerry, Sensis Cor	poration and	
	Rafael Apaza, Federal Aviation Admini	stration	
03:30 – 05:00 pm	The NGATS-CNS National Testbed		













Wednesday, May 3, 2006		
Session C3 – Integrated CNS Systems and Architectures Session Chair: Kenneth Arkind, Raytheon		
10:30 – 11:00 am	Required Total System Performance: An Emerging Model-Based and Performance-Driven ATM/CNS Concept	Arek Shakarian, Boeing Phantom Works
11:00 – 11:30 am	IPv6 Based Aircraft Data Networks and Voice Services	Nagaraja Thanthry, A. Bhatia, S. Shingvi and R. Pendse, Wichita State University
11:30 – 12:00 pm	NGATS Dynamic Architecture	Ken Arkind, Raytheon Company
12:00 – 01:00 pm	LUNCH	
01:00 – 01:30 pm	Flight Trial Architectures Supporting Migration to Broadband Internet Protocol (IP) for Airline Operations Communications (AOC) and Air Traffic Services (ATS) Communications	Robert Mead, Boeing, Phantom Works; Karl Griep, Dave Morse, Mark Taylor and Duane Harkness, Avaliant LLC
01:30 – 02:00 pm	Communications, Navigation, Surveillance and Avionics within the 2020 Future Vision	Robert Morgenstern, The MITRE Corporation
02:00 – 02:30 pm	The Use of Collaborative Rerouting Procedures Instead of Miles-in-Trail (MIT) Restrictions for Managing National Airspace System (NAS) Choke Points	Paul Rigterink and Ed Ellenberger, Computer Sciences Corporation
02:30 – 03:00 pm	Extended LAN Services and Aviation Data Networks	S. Kulkarni, Nagaraja Thanthry and R. Pendse, Wichita State University
03:00 – 03:30 pm	BREAK	
Workshop Session 2		
Session Chairs: Robert Kerczewski, NASA Glenn Research Center and Tom Kraft, Federal Aviation Administration		
03:30 – 05:00 pm	03:30 – 05:00 pm The Future of Required Total System Performance (RTSP)	













Wednesday, May 3, 2006 Session C4 – CNS/ATM Simulation and Evaluation Session Chair: Chris Wargo, Computer, Networks & Software Inc.		
11:00 – 11:30 am	Communication, Navigation and Surveillance Models in ACES for Concept Developers	Greg Kubat, Analex Corporation; Don Van Drei, NASA Glenn Research Center; Goutam Satapathy, Inteligent Automation, Inc.; Anil Kumar, CNS, Inc. and Manu Khanna, Comptel, Inc.
11:30 – 12:00 pm	Finding Optimum Air Service Distribution to Balance Network Load for Congestion Management	Loan Le, George Mason University
12:00 – 01:00 pm	LUNCH	
01:00 – 01:30 pm	NGATS CNS R&D Laboratory	Rod Collins and Robin Finnegan, Sensis Corporation
01:30 – 02:00 pm	A Trajectory-Based Probabilistic TFM Evaluation Tool and Experiment	Kris Ramamoorthy and George Hunter, Sensis Corporation
02:00 – 02:30 pm	Combined Weather-Impacted Traffic Index for Airports and its Correlation with Delay Metrics	Alexander Klein, George Mason University
02:30 – 03:00 pm	Simulation - The Challenge for NGATS	Chris Wargo, Computer Networks & Software, Inc.
03:00 – 03:30 pm	BREAK	•
Workshop Session 3 Session Chairs: Chris Wargo, Computer Networks & Software, Inc. and		
00:00 05:00	Jim Dieudonne, The MITRE Corp	oration
03:30 – 05:00 pm	Network Enabled Information Access for NGATS	











